

1014-I1-30

Huseyin Kocak* (hk@math.miami.edu), Department of Mathematics, University of Miami, Coral Gables, FL 33124. *History Live!: Examples of differential equations studied by Newton and Leibniz.*

We will demonstrate the contrasting ways Newton and Leibniz studied differential equations. We will introduce two specific examples from original sources. Using Phaser, we will present graphical simulations of these examples.

The examples and their simulations are available at <http://www.phaser.com> under Modules -> Historic Modules. They are part of the collection "Historical Modules in Dynamics and Differential Equations" supported by the National Science Foundation. (Received June 09, 2005)